

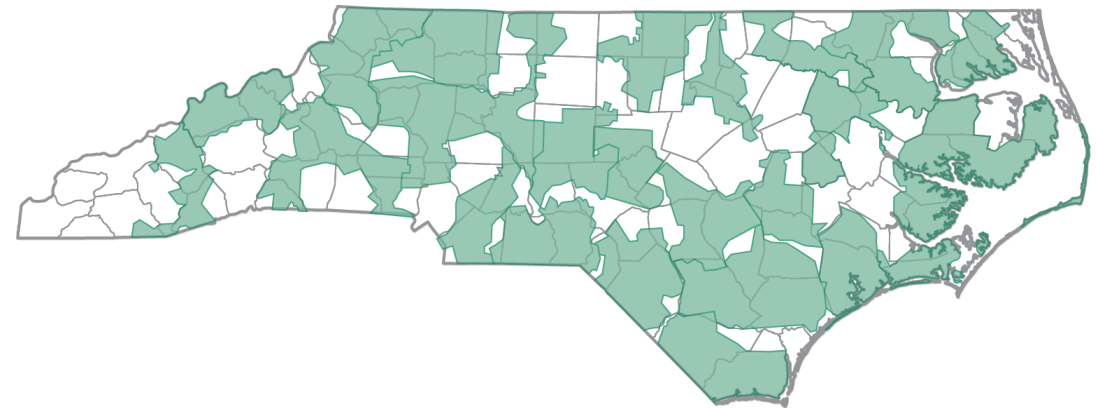
North Carolina's Electric Cooperatives

February 23, 2021



NC Electric
Cooperatives

Your Touchstone Energy® Cooperatives 

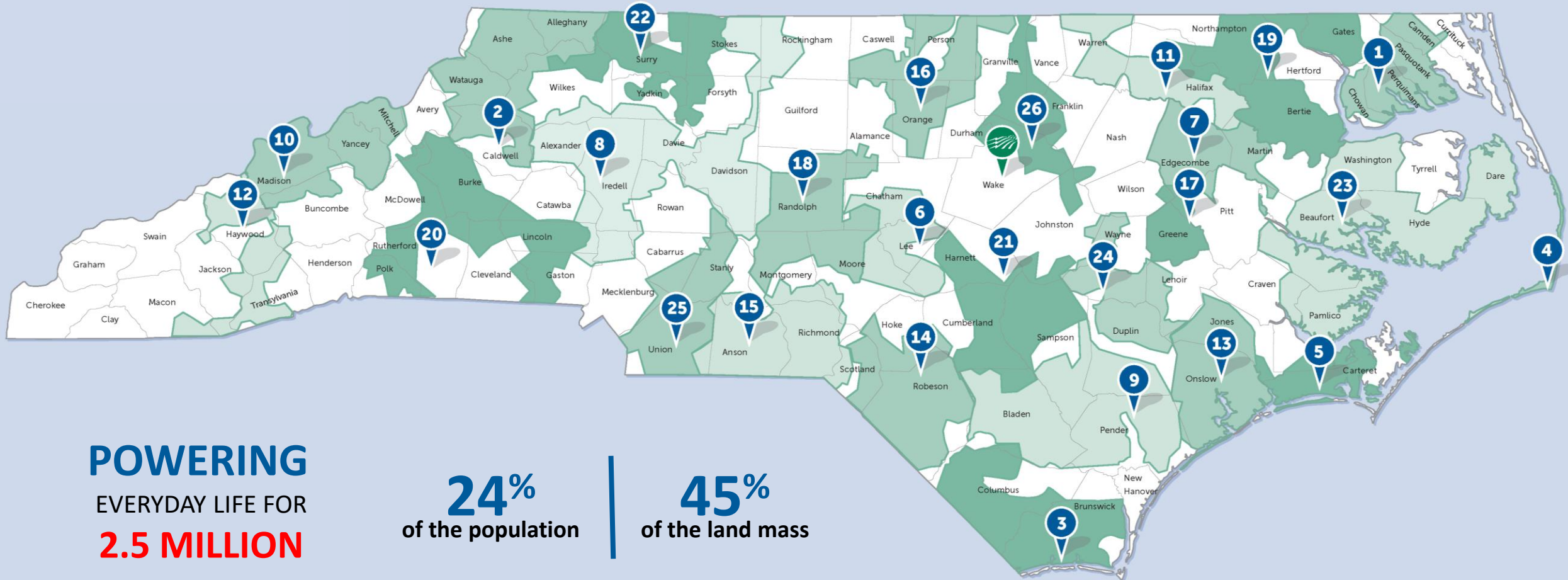


NC
Co-ops

103,000
Miles of Distribution Lines

Duke
NC

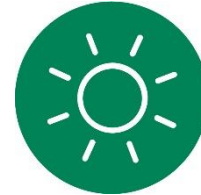
145,000
Miles of Distribution Lines





Building a

BRIGHTER FUTURE



Reliable electricity delivered across innovative, co-op operated electric grids at the **lowest possible cost.**



Utilizing existing and new resources and technologies to achieve **Net zero carbon emissions by 2050.**

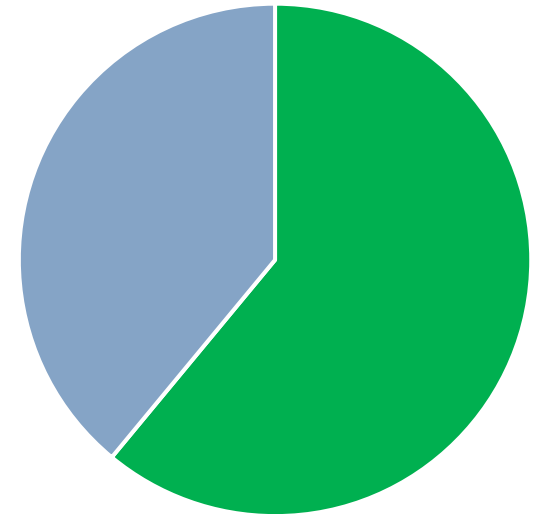


Support for community through economic development and enrichment activities.

NC Co-ops' Centralized Resources



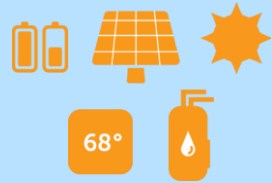
NCEMC 2021 Energy Mix
61% Carbon Free



Distributed Energy Resources (DER) & Cooperative Solar

Over 500 MW of DER/Edge of Grid

19 Community Solar Sites	2.1 MW
Utility Scale Solar	293 MW
Other Renewables (including residential)	27 MW
Conservation Voltage Reduction	50 MW
Customer-owned Generation	60 MW
Battery Storage	42 MW
Connected Thermostats and Water Heaters	9.5 MW



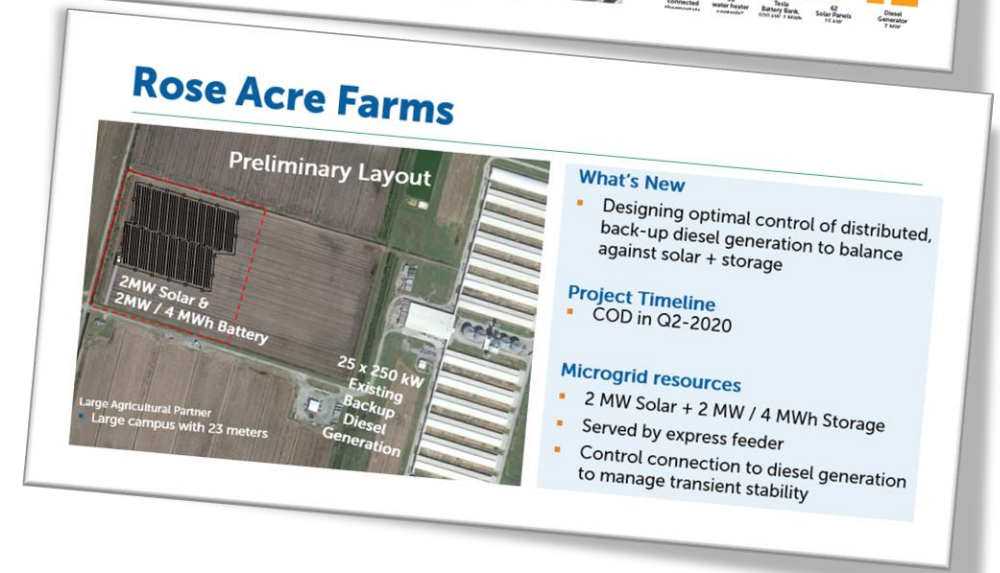
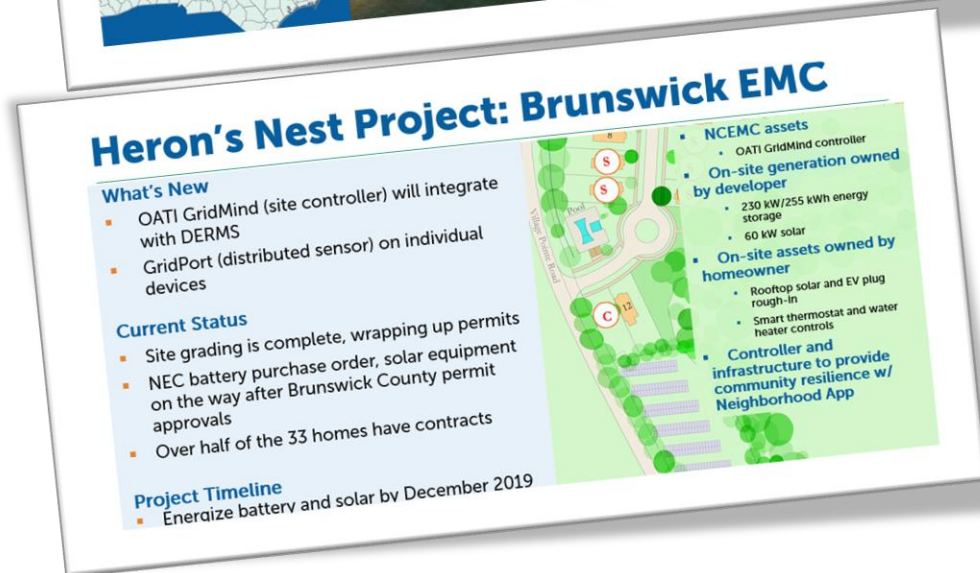
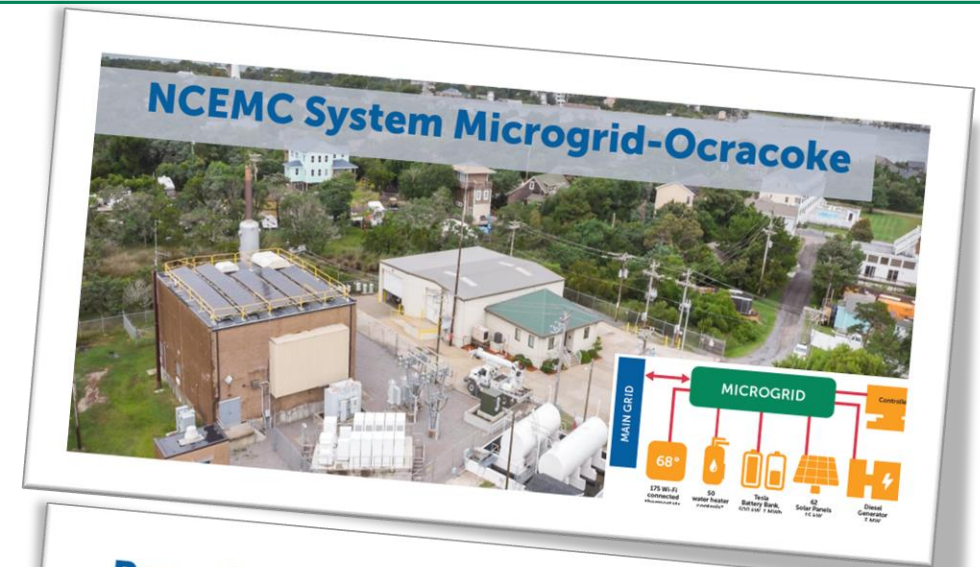
Solar + Storage

14 sites with 18.5 MW of solar and 45 MWh of energy storage facilities, owned by NCEMC, under construction on member systems in 2020 and early 2021.

Community Solar in NC

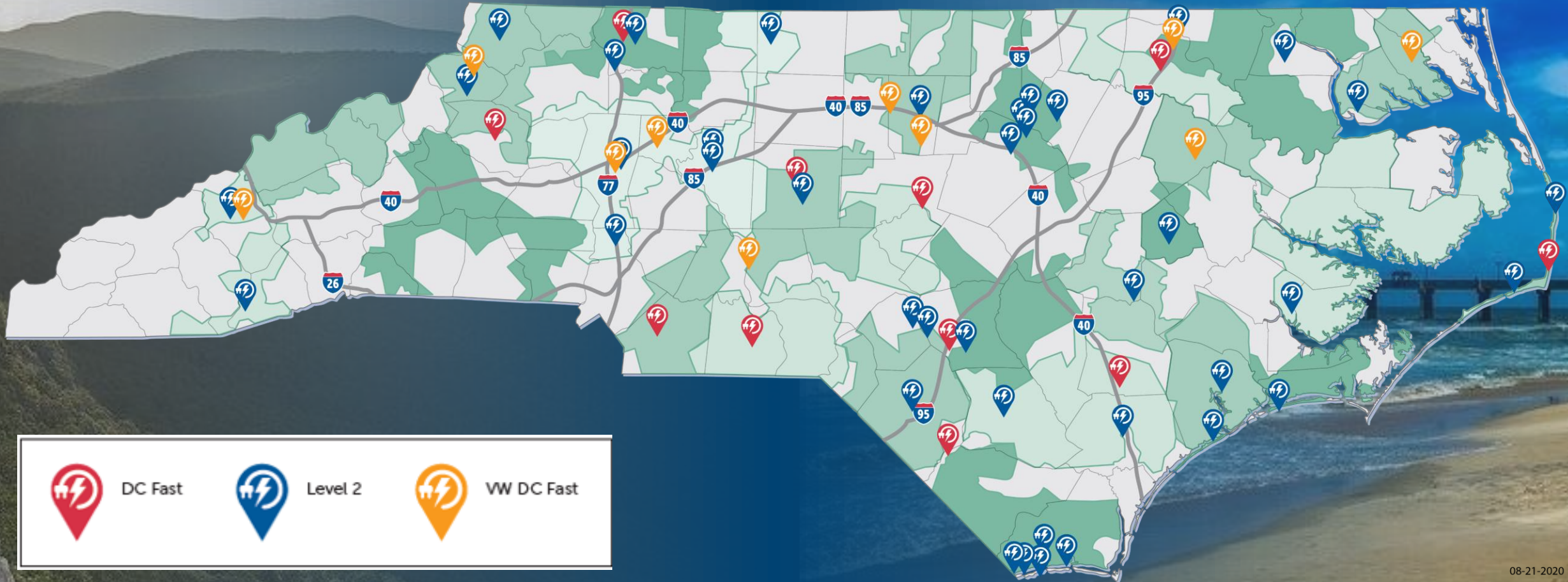


NC Co-ops' Microgrids



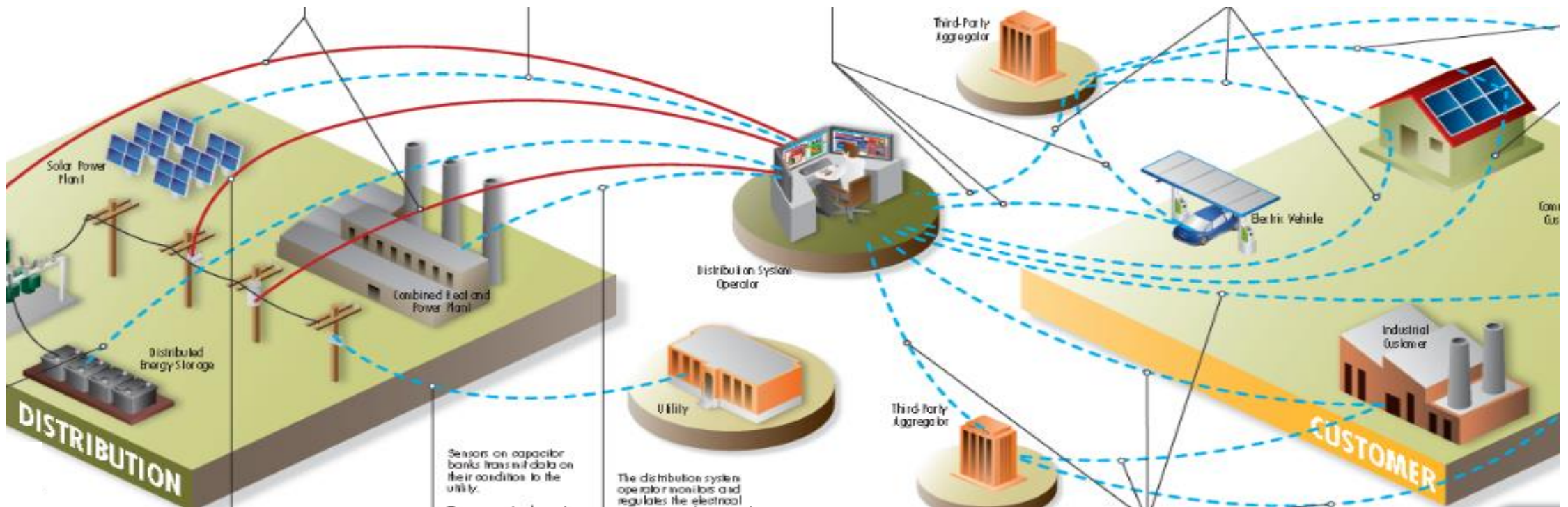
NC Electric Cooperatives EV Charging Network

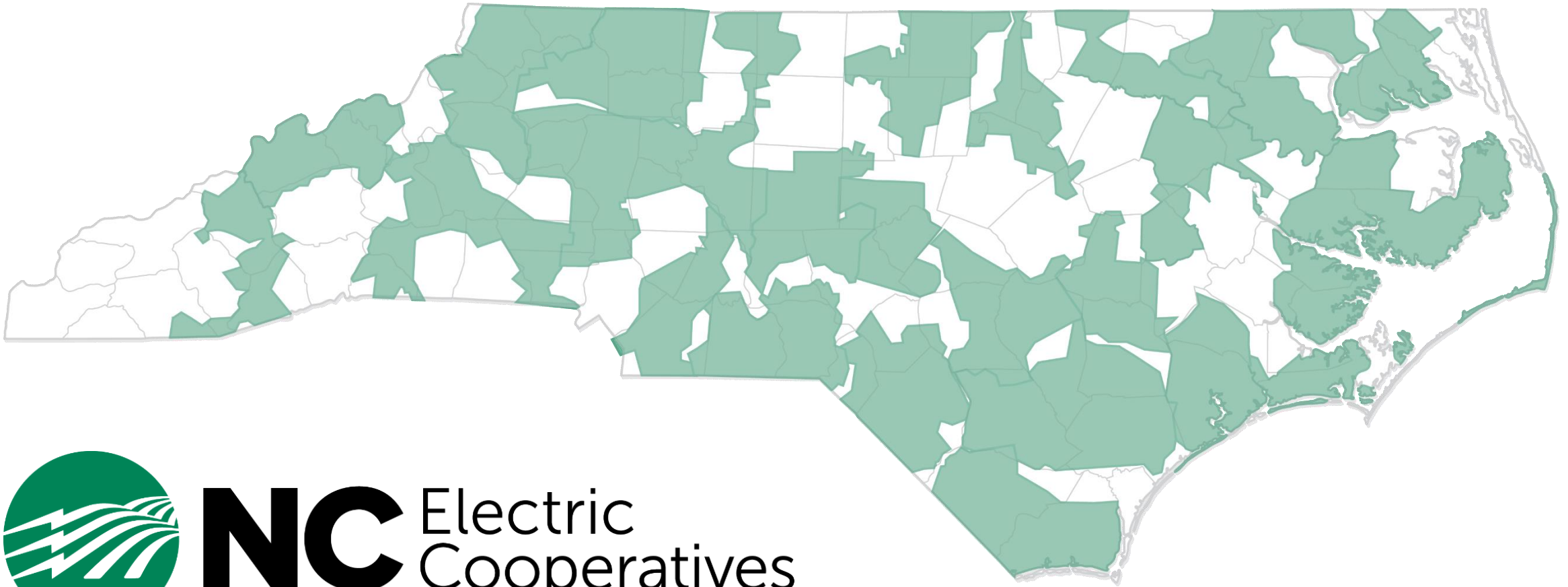
Level 2 and DC Fast Charging Stations Across NC Co-op Territories



Distribution Operator

The Distribution Operator enhances communication and coordination, between the **Distribution System** and the **Transmission System**, which increases reliability





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